



39780-1216R1D4 SAVED AUGUST 17 2005.TXT

SEQUENCE LISTING

<110> Ashkenazi, Avi J.
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Napier, Mary A.
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Wood, William I.

<120> COMPOUNDS, COMPOSITIONS AND METHODS FOR
THE TREATMENT OF DISEASES CHARACTERIZED BY A33- RELATED
ANTIGENS

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<150> PCT/US98/24855

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 Gly Asn Arg Ala Val Leu Thr Cys Ser Glu His Asp Gly Ser Pro Pro
 145 150 155 160
 Ser Glu Tyr Ser Trp Phe Lys Asp Gly Ile Ser Met Leu Thr Ala Asp
 165 170 175
 Ala Lys Lys Thr Arg Ala Phe Met Asn Ser Ser Phe Thr Ile Asp Pro
 180 185 190
 Lys Ser Gly Asp Leu Ile Phe Asp Pro Val Thr Ala Phe Asp Ser Gly
 195 200 205
 Glu Tyr Tyr Cys Gln Ala Gln Asn Gly Tyr Gly Thr Ala Met Arg Ser
 210 215 220
 Glu Ala Ala His Met Asp Ala Val Glu Leu Asn Val Gly Gly Ile Val
 225 230 235 240
 Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Leu Leu Ile Phe Gly
 245 250 255
 Val Trp Phe Ala Tyr Ser Arg Gly Tyr Phe Glu Thr Thr Lys Lys Gly
 260 265 270
 Thr Ala Pro Gly Lys Lys Val Ile Tyr Ser Gln Pro Ser Thr Arg Ser
 275 280 285
 Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
 290 295 300

<210> 11
 <211> 1842
 <212> DNA
 <213> Homo sapiens

<400> 11
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 ctggcattgg gcagtgttac agtgcactct tctgaacctg aagtcagaat tcctgagaat 180
 aatcctgtga agttgtcctg tgcctactcg ggcttttctt ctccccgtgt ggagtgggaag 240
 tttgaccaag gagacaccac cagactcgtt tgctataata acaagatcac agcttcctat 300
 gaggaccggg tgaccttctt gccaaactggt atcaccttca agtccgtgac acgggaagac 360
 actgggacat acacttgtat ggtctctgag gaaggcggca acagctatgg ggaggtcaag 420
 gtcaagctca tcgtgcttgt gcctccatcc aagcctacag ttaacatccc ctctctgcc 480
 accattggga accgggcagt gctgacatgc tcagaacaag atggttcccc accttctgaa 540

39780-1216R1D4 SAVED AUGUST 17 2005.TXT

tacacctggt	tcaaagatgg	gatagtgatg	cctacgaatc	ccaaaagcac	ccgtgccttc	600
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gcctctgata	ctggagaata	cagctgtgag	gcacggaatg	ggatggggac	acccatgact	720
tcaaattgctg	tgcgcatgga	agctgtggag	cggaatgtgg	gggtcatcgt	ggcagccgtc	780
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agtgcgccga	gtgaaggaga	attcaaacag	acctcgtcac	tcctgggtgtg	agcctggtcg	960
gctcaccgcc	tatcatctgc	atttgcctta	ctcaggtgct	accggactct	ggccccctgat	1020
gtctgtagtt	tcacaggatg	ccttattttgt	cttctacacc	ccacagggcc	ccctacttct	1080
tcggatgtgt	ttttaataat	gtcagctatg	tgccccatcc	tccttcatgc	cctccctccc	1140
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agggatcagg	aaggaatcct	gggtatgcc	ttgacttccc	ttctaagtag	acagcaaaaa	1260
tggcgggggt	cgcaggaatc	tgacttcaac	tgcccacctg	gctggaagg	atctttgaat	1320
aggtatcttg	agcttggttc	tgggctcttt	ctttgtgtac	tgacgaccag	ggccagctgt	1380
tctagagcgg	gaattagagg	ctagagcggc	tgaaatgggt	gtttgggtgat	gacactgggg	1440
tccttccatc	tctggggccc	actctcttct	gtcttcccat	gggaagtgcc	actgggatcc	1500
ctctgccctg	tcctcctgaa	tacaagctga	ctgacattga	ctgtgtctgt	ggaaaatggg	1560
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accgctgctc	taaagaaaag	aaaactggag	gctgggcgca	gtggctcacg	cctgtaatcc	1680
cagaggctga	ggcaggcgga	tcacctgagg	tcgggagttc	gggatcagcc	tgaccaacat	1740
ggagaaaccc	tactggaaat	acaaagttag	ccaggcatgg	tggtgcatgc	ctgtagtccc	1800
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<210> 12

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer

<400> 12

tcgcggagct gtgttctggt tccc

24

<210> 13

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Hybridization Probe

<400> 13

tgatcgcgat ggggacaaag gcgcaagctc gagaggaaac tgttgtgcct

50

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer

<400> 14

acacctgggt caaagatggg

20

<210> 15

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer

<400> 15
 taggaagagt tgctgaaggc acgg 24
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 <211> 20
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 <213> Artificial Sequence
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 <223> Synthetic Oligonucleotide Primer
 <400> 16
 ttgccttact caggtgctac 20
 <210> 17
 <211> 20
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 <213> Artificial Sequence
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 <223> Synthetic Oligonucleotide Primer
 <400> 17
 actcagcagt ggtaggaaag 20
 <210> 18
 <211> 24
 <212> DNA
 <213> Artificial Sequence
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 <223> Synthetic Oligonucleotide Primer
 <400> 18
 tatccctcca attgagcacc ctgg 24
 <210> 19
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic Oligonucleotide Primer
 <400> 19
 gtcggaagac atcccaacaa g 21
 <210> 20
 <211> 24
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Synthetic Oligonucleotide Primer
 <400> 20
 cttcacaatg tcgctgtgct gctc 24
 <210> 21
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer

<400> 21

agccaaatcc agcagctggc ttac

24

<210> 22

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Hybridization Probe

<400> 22

tggatgaccg gagccactac acgtgtgaag tcacctggca gactcctgat

50

<210> 23

<211> 260

<212> PRT

<213> Homo sapiens

<400> 23

Leu Ala Leu Gly Ser Val Thr Val His Ser Ser Glu Pro Glu Val Arg
 1 5 10 15
 Ile Pro Glu Asn Asn Pro Val Lys Leu Ser Cys Ala Tyr Ser Gly Phe
 20 25 30
 Ser Ser Pro Arg Val Glu Trp Lys Phe Asp Gln Gly Asp Thr Thr Arg
 35 40 45
 Leu Val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu Asp Arg Val
 50 55 60
 Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser Val Thr Arg Glu Asp
 65 70 75 80
 Thr Gly Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly Asn Ser Tyr
 85 90 95
 Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro Ser Lys Pro
 100 105 110
 Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg Ala Val Leu
 115 120 125
 Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr Thr Trp Phe
 130 135 140
 Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr Arg Ala Phe
 145 150 155 160
 Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu Leu Val Phe
 165 170 175
 Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg
 180 185 190
 Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg Met Glu Ala
 195 200 205
 Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu Val Thr Leu
 210 215 220
 Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala Tyr Ser Arg
 225 230 235 240
 Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys Lys Val Ile
 245 250 255
 Tyr Ser Gln Pro
 260

<210> 24

<211> 270

<212> PRT

<213> Homo sapiens

<400> 24

Val Arg Val Thr Val Asp Ala Ile Ser Val Glu Thr Pro Gln Asp Val
 1 5 10 15
 Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys Thr Tyr His
 20 25 30
 Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp Lys Leu Leu
 35 40 45
 Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser Asn Lys Asn
 50 55 60
 Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile Ser Asn Asn
 65 70 75 80
 Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu Thr Met Ala
 85 90 95
 Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser Asp Leu Glu
 100 105 110
 Gly Asn Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val Pro Pro Ser
 115 120 125
 Lys Pro Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly Asn Asn Ile
 130 135 140
 Gln Leu Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro Gln Tyr Ser
 145 150 155 160
 Trp Lys Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu Ala Gln Pro
 165 170 175
 Ala Ser Gly Gln Pro Val Ser Leu Lys Asn Ile Ser Thr Asp Thr Ser
 180 185 190
 Gly Tyr Tyr Ile Cys Thr Ser Ser Asn Glu Glu Gly Thr Gln Phe Cys
 195 200 205
 Asn Ile Thr Val Ala Val Arg Ser Pro Ser Met Asn Val Ala Leu Tyr
 210 215 220
 Val Gly Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile Ile Gly Ile
 225 230 235 240
 Ile Ile Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn Thr Glu Asp
 245 250 255
 Lys Glu Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu Pro
 260 265 270

<210> 25

<211> 263

<212> PRT

<213> Homo sapiens

<400> 25

Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His Ser Ser Glu Pro
 1 5 10 15
 Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu Ser Cys Ala Tyr
 20 25 30
 Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Asp Gln Gly Asp
 35 40 45
 Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu
 50 55 60
 Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser Val Thr
 65 70 75 80
 Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly
 85 90 95
 Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro
 100 105 110
 Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg
 115 120 125
 Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr
 130 135 140

Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr
 145 150 155 160
 Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu
 165 170 175
 Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys
 180 185 190
 Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg
 195 200 205
 Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu
 210 215 220
 Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala
 225 230 235 240
 Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys
 245 250 255
 Lys Val Ile Tyr Ser Gln Pro
 260

<210> 26
 <211> 273
 <212> PRT
 <213> Homo sapiens

<400> 26
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 1 5 10 15
 Gln Asp Val Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys
 20 25 30
 Thr Tyr His Thr Ser Thr Ser Arg Glu Gly Leu Ile Gln Trp Asp
 35 40 45
 Lys Leu Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser
 50 55 60
 Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile
 65 70 75 80
 Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu
 85 90 95
 Thr Met Ala Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser
 100 105 110
 Asp Leu Glu Gly Asn Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val
 115 120 125
 Pro Pro Ser Lys Pro Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly
 130 135 140
 Asn Asn Ile Gln Leu Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro
 145 150 155 160
 Gln Tyr Ser Trp Lys Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu
 165 170 175
 Ala Gln Pro Ala Ser Gly Gln Pro Val Ser Leu Lys Asn Ile Ser Thr
 180 185 190
 Asp Thr Ser Gly Tyr Tyr Ile Cys Thr Ser Ser Asn Glu Glu Gly Thr
 195 200 205
 Gln Phe Cys Asn Ile Thr Val Ala Val Arg Ser Pro Ser Met Asn Val
 210 215 220
 Ala Leu Tyr Val Gly Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile
 225 230 235 240
 Ile Gly Ile Ile Ile Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn
 245 250 255
 Thr Glu Asp Lys Glu Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu
 260 265 270
 Pro

<210> 27

<211> 413

<212> DNA

<213> Artificial Sequence

<220>

<223> Consensus DNA Sequence

<400> 27

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aggccaaaac	ctggaagagg	atacagtcac	tctggaagta	ttagtggttc	cagcagttcc	120
atcatgtgaa	gtaccctctt	ctgctctgag	tggaactgtg	gtagagctac	gatgtcaaga	180
caaagaaggg	aatccagctc	ctgaatacac	atggtttaag	gatggcatcc	gtttgctaga	240
aaatcccaga	cttggtctcc	aaagcaccaa	cagctcatac	acaatgaata	caaaaactgg	300
aactctgcaa	tttaatactg	tttccaaact	ggacactgga	gaatattcct	gtgaagcccg	360
caattctgtt	ggatatcgca	ggtgtcctgg	ggaaacgaat	gcaagtagat	gat	413

<210> 28

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer

<400> 28

atcgttgtaga	agtttagtgcc	cc	22
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<210> 29

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer

<400> 29

acctgcgata	tccaacagaa	ttg	23
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<210> 30

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Hybridization Probe

<400> 30

ggaagaggat	acagtcactc	tggaagtatt	agtggctcca	gcagttcc	48
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